

## CLAIMS:

1. A motor comprising an armature, a rotor and a motor casing for holding the armature and bearings for the rotor, characterized by:

reduction gearing consisting of a train of gears connected to an output shaft of the rotor and a reduction gearing casing for holding the reduction gearing, the motor casing being integrally provided with the reduction gearing casing, a hole, through which the output shaft is extended from the motor casing side to the reduction gearing casing side, being formed on a portion shared by these casings, and a lubrication oil filling the reduction gearing casing.

2. The motor according to claim 1, wherein the bearing for the rotor and an oil seal for sealing the lubrication oil are placed in the hole, and the bearing is immersed in the lubrication oil.

3. A motor comprising an armature, a rotor and a motor casing for holding the armature and bearings for the rotor, wherein:

the motor casing is configured by assembling a plurality of members, and at least one of the plurality of members supports the bearing and the inner diameter section of the armature.

4. A motor comprising an armature, a rotor and a motor casing for holding the armature and bearings for the rotor, wherein:

a resin is charged into and cured in the motor casing to adhere to a coil of the armature and the inside surface of the motor casing.

5. A method for producing a motor comprising an armature, a

rotor and a motor casing for holding the armature and bearings for the rotor, comprising the step of:

charging a resin into and curing in the motor casing to adhere the resin to a coil of the armature and the inner surface of the motor casing.

6. The method for producing a motor according to claim 5, wherein when the resin is charged into the motor casing, a core for securing a space for placing the rotor is inserted into the motor casing.

7. The method for producing a motor according to claim 6, wherein the motor is provided with a rotation sensor for detecting a rotation position of the rotor, and the core secures a space for placing the rotation sensor.

8. A motor comprising an armature, a rotor, a control section for controlling the armature and a motor casing for holding them, wherein:

the motor casing includes a first casing member and a second casing member which cover the armature and the rotor and are respectively provided with bearings for the rotor and a third casing member for covering the control section, the first casing member and the third casing member are assembled to form an outer shell of the motor, the first casing member and the second casing member are assembled to divide the inside of the motor, and seating surfaces to be mutually contacted are respectively formed on ends of the first casing member and the third casing member.

9. The motor according to claim 8, wherein a through section is provided on the second casing member, through which wiring

for connecting the armature with the control section is passed.

10. The motor according to claim 8 or 9, wherein a substrate of the control section is supported by the second casing member.

11. The motor according to any of claims 8 to 10, wherein a sensor for detecting a position of the rotor is supported by the second casing member.

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